

Quick Start Guide

Analysis Models - Power BI

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Solution Options

Solution Options

- Analysis Models - Power BI content can be used based on the preference.

Solution Options	High Level Action Items
Publish and Refresh IFS Core Models	1. Download IFS Core Models and corresponding Data Source Definitions from Knowledge base resources. 2. Publish the IFS Core Model into the Golden Workspace via Power BI Desktop. 3. Import the corresponding Data Source Definition via the Parquet Data Source page in IFS Cloud Web. 4. Use the 'Publish' option in the Analysis Models page and Refresh the Model.
Upload and Refresh IFS Core Models	1. Download IFS Core Models and corresponding Data Source Definitions from Knowledge base resources. 2. Import the corresponding Data Source Definition via the Parquet Data Source page in IFS Cloud Web. 3. Use the 'Upload' option in the Analysis Models page and Refresh the Model.
Upload and Refresh Own/ Customized Models	1. Create/customize Models. 2. Use the 'Upload' option in the Analysis Models page and Refresh the Model.

Data Configuration

Data Configuration

- To ensure Analysis Models - Power BI functions correctly, Data Configurations must be properly defined.
- The following Basic Data in IFS Cloud is mandatory for most delivered Analysis Models.
 - Reporting Period
 - Reporting Currency Rate Type
- For Financial Models following high-level Data Configurations must be defined.

1. General Ledger

- Accounting Attribute
- Accounting Structures
- Reverse Income
- Company Structure

2. Group Consolidation

- Accounting Attribute for Consolidation
- Accounting Structure for Consolidation
- Reverse Income

Data Configuration Cont.

3. Group Reporting

- Balance Sets
- Accounting Structures
- Code Part Attributes

4. Cash Planning

- Company Structure

- For HCM Models following high-level Data Configurations must be defined.

- Age Group Class
- Employee Duration Class
- Organization Structure

- To read more about Data Configuration, refer to the Technical Documentation for the Analysis Model Data Configuration.

Pre-Requisites

Pre-Requisites

- Environment setup completed for Analysis Models – Power BI.
 - Refer Technical Documentation for the Setup Guide
- Power BI Desktop installed on the device being used.

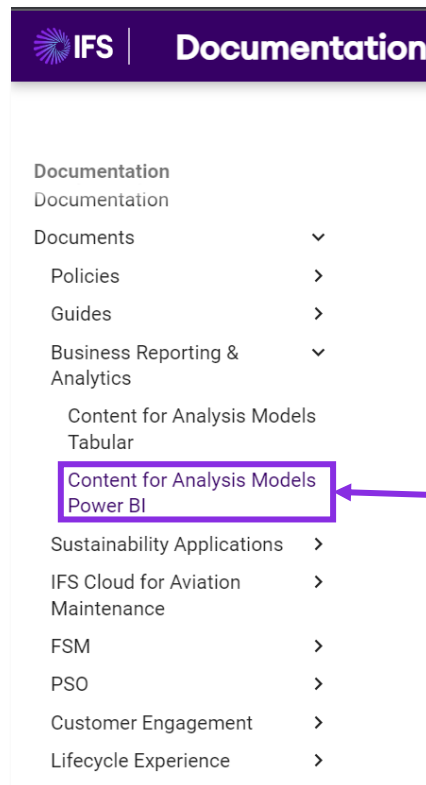
Step-by-step guide

Step-by-step guide

Setting up Golden Workspace

Navigate to Content for Analysis Models Power BI

- Follow the link <https://docs.ifs.com/> to IFS Docs and navigate to Content for Analysis Models Power BI page as shown.
- Documents > Business Reporting & Analytics > Content for Analysis Models Power BI



Navigate to Content for Analysis Models Power BI

Download Relevant IFS Core model/ PBI Report

Navigate to the Knowledge base resources to view and download all released Models based on the functional area and IFS Version/ Service Update.

IFS Core Models

CRM

Model	24R1	24R2	25R1
CRM	CRM 24R1 V1 - SU06 CRM 24R1 V2 - SU11	CRM 24R2 V1 - GA CRM 24R2 V2 - SU05	CRM 25R1 V1 - EA CRM 25R1 V2 - GA

Financials

Model	24R1	24R2	25R1
Cash Planning	Not Applicable	CP 24R2 V1 - GA CP 24R2 V2 - SU05	CP 25R1 V1 - EA
General Ledger	GL 24R1 V1 - SU06	GL 24R2 V1 - GA GL 24R2 V2 - SU05	GL 25R1 V1 - EA

Functional Area

IFS Cloud Version/
Service Update

Models are available in the appropriate naming convention, and they will be downloaded in .pbix format.

community.ifs.com/announcements-notifications-280/content-for-analysis-models-power-bi-59876

IFS

Community

Resources

Product Updates

Events

Groups

Ideas

Feedback

Start a new topic

Recent Downloads

IFS_CRM_25R1_V2.pbix

941 KB • Done

Downloaded as
PBIX

Publish .PBIX into the Golden Workspace

Open the downloaded file and Publish it to the Golden Workspace.

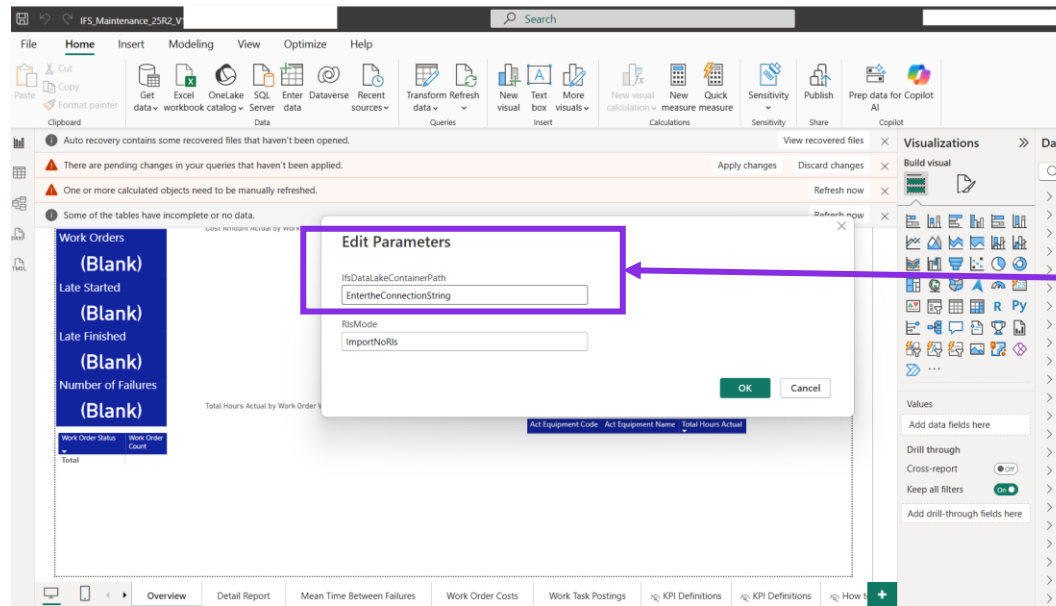
The screenshot shows the Power BI Desktop interface. The 'Publish' button in the 'Share' tab of the ribbon is highlighted with a purple box. A purple arrow points from this box to a purple callout box on the right that says 'Select Publish option'. Below the ribbon, the 'Publish to Power BI' dialog box is open. The 'Select a destination' section has a search bar highlighted with a purple box. A purple arrow points from this box to another purple callout box on the right that says 'Search Golden Workspace'. The search bar contains the text 'Search'. Below the search bar, a list of destinations is visible, including 'AM CRM', 'AM ESG', 'AM Finance', 'AM HCM', 'AM IFS Cloud 22R2', and 'AM IFS Cloud 23R1'. At the bottom of the dialog box are 'Select' and 'Cancel' buttons.

Step-by-step guide

Refreshing an IFS Core Model via Power BI Desktop

Open the IFS Core Model and set the Parameter value

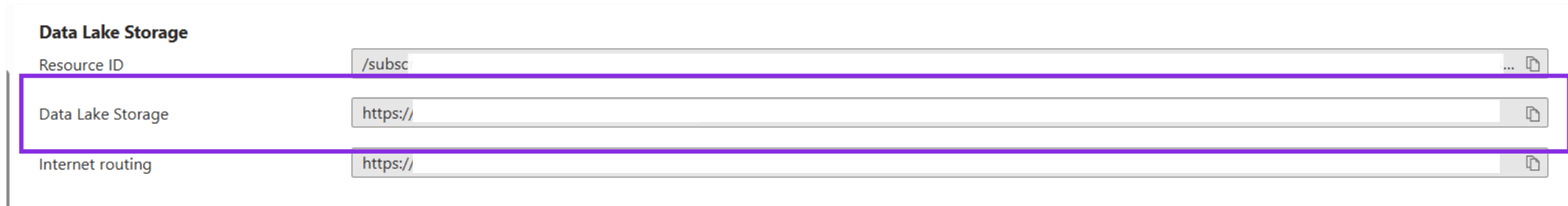
- Open the downloaded .PBIX file.
- Go to 'Edit Parameters' (or 'Manage Parameters').
- You will see the default value for the parameter **IfsDataLakeContainerPath** as '*EntertheConnectionString*'.
- Remove the default value and add your self hosted Data Lake container Path.
Container Path format: `https://<storage-account-name>.dfs.core.windows.net/<container-name>`
Example: `https://exampledatalakename.dfs.core.windows.net/exampledatalakecontainername`
- Apply Changes to refresh the Model.



Add the Parameter Value

How to obtain the value for IfsDataLakeContainerPath ?

- In the Azure Portal, navigate to the Storage Account Properties and get the Data Lake Storage URL from the Endpoints section.



The screenshot shows the 'Data Lake Storage' section of the Azure Portal. It contains three rows of configuration: 'Resource ID' with the value '/subsc', 'Data Lake Storage' with the value 'https://', and 'Internet routing' with the value 'https://'. The 'Data Lake Storage' row is highlighted with a red border, indicating the location of the endpoint URL.

Data Lake Storage	
Resource ID	/subsc
Data Lake Storage	https://
Internet routing	https://

- If you use a Non-Organizational Account for Data Lake storage access, use the SAS URI generated when whitelisting IPs.
- Read More about SAS Token Creation and IP Whitelisting in IFS Technical Documentation:

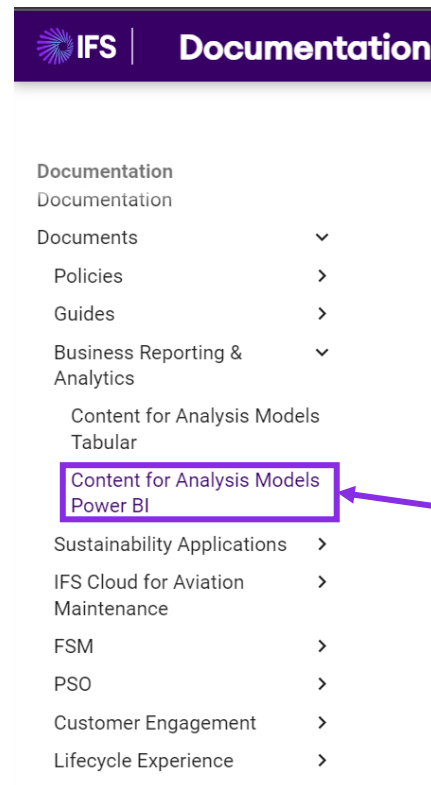
Reporting and Analysis Guide> Analytics> Analysis Models Power BI> SAS Token Generation and IP Whitelisting

Step-by-step guide

Download Data Source Definitions

Navigate to Content for Analysis Models Power BI

- Follow the link <https://docs.ifs.com/> to IFS Docs and navigate to Content for Analysis Models Power BI page as shown.
- Documents > Business Reporting & Analytics > Content for Analysis Models Power BI



Navigate to Content for Analysis Models Power BI

Download Relevant Data Source Definition

Navigate to the Knowledge base resources to view and download the related Data Source Definitions based on the functional area and IFS Version/ Service Update.

Data Source Definitions

CRM

Model	24R1	24R2	25R1
CRM	CRM 24R1 - SU06	CRM 24R2 - GA	CRM 25R1 V1 CRM 25R1 V2

Financials

Model	24R1	24R2	25R1
Cash Planning	Not Applicable	CP 24R2 - SU05	CP 25R1 - EA
General Ledger	GL 24R1 - SU04	GL 24R2 - GA GL 24R2 V3 - SU09	GL 25R1 - EA GL 25R1 V2 - SU03
Group Reporting	Not Applicable	GR 24R2 - GA	Last modified: 24R2

Functional Area

IFS Cloud Version/
Service Update

Download the Data Source definition of the required model (.json file).

community.ifs.com/announcements-notifications-280/content-for-analysis-models-power-bi-59876

Data Source Definitions

CRM

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Recent Downloads

dataSourceExport_CRM_V2.json

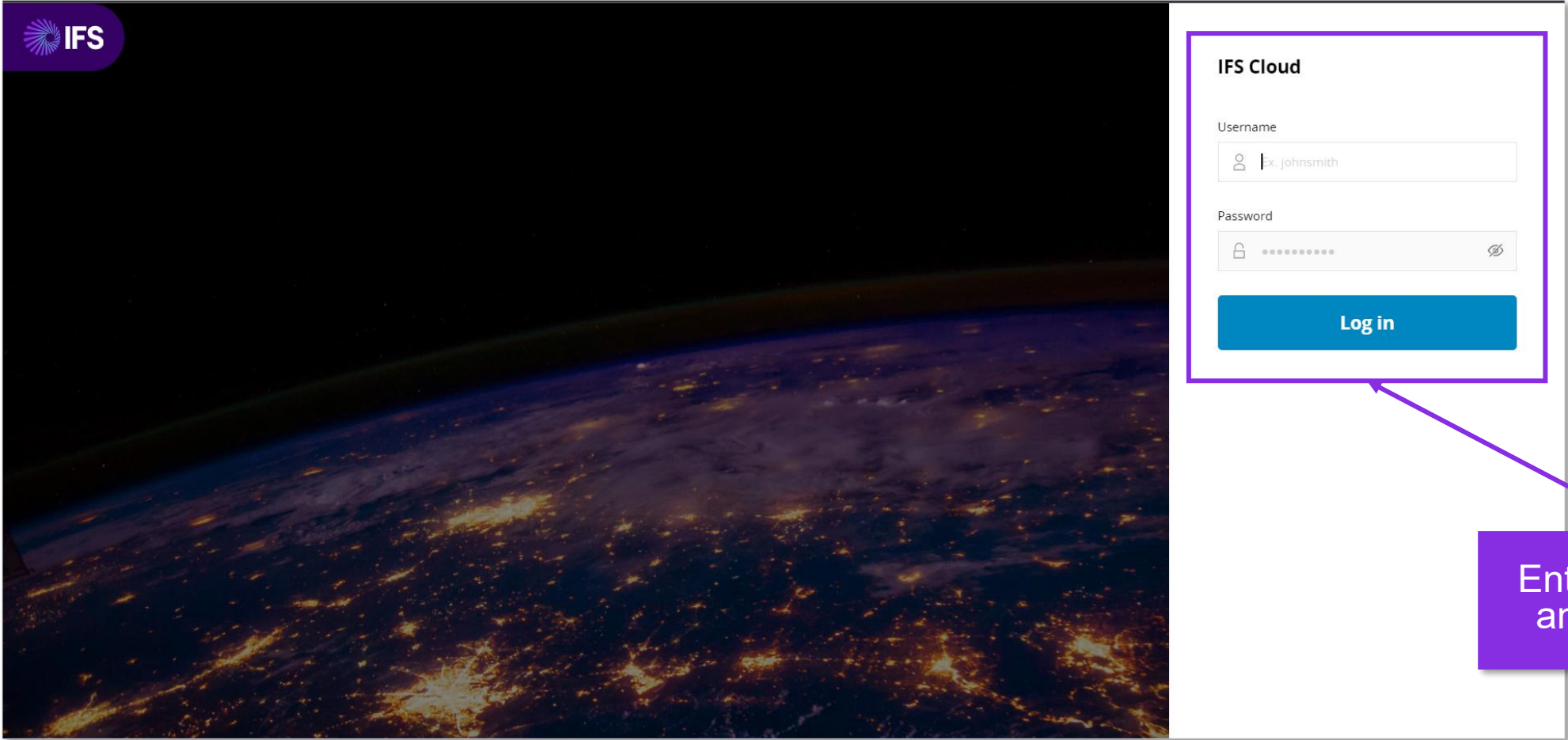
114 KB • Done

Downloaded as
.json

Step-by-step guide

Import Data Sources

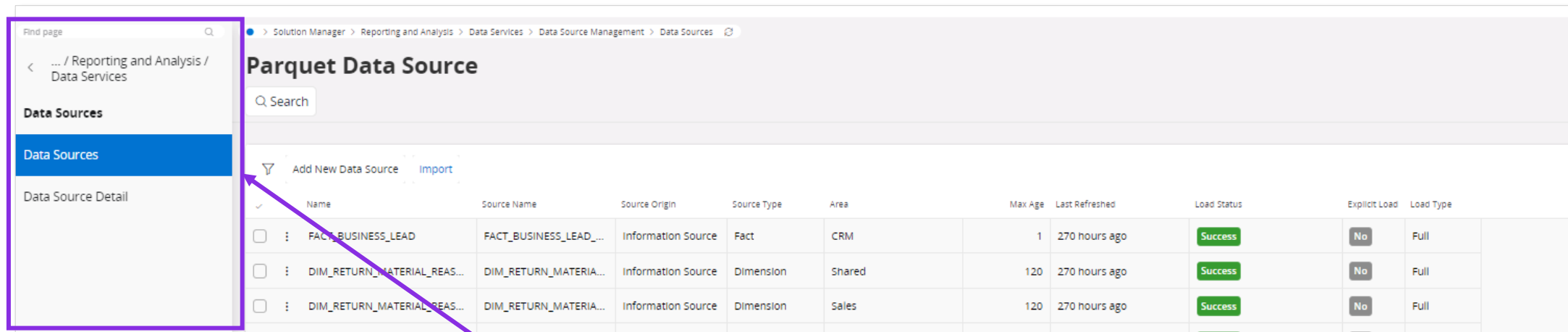
Sign into IFS Cloud



Enter Username
and Password

Navigate to Parquet Data Sources Page

- Follow the navigation steps below.
- Solution Manager > Reporting and Analysis > Data Services > Data Source Management > Data Sources



The screenshot shows the 'Parquet Data Source' page in the Solution Manager. The left sidebar contains a navigation menu with the following items: 'Find page', '... / Reporting and Analysis / Data Services', 'Data Sources' (highlighted), and 'Data Source Detail'. The main content area has a breadcrumb trail: '> Solution Manager > Reporting and Analysis > Data Services > Data Source Management > Data Sources'. Below the breadcrumb is a search bar and two buttons: 'Add New Data Source' and 'Import'. A table lists the data sources with columns: Name, Source Name, Source Origin, Source Type, Area, Max Age, Last Refreshed, Load Status, Explicit Load, and Load Type. The table contains three rows of data sources, all with a 'Success' load status.

	Name	Source Name	Source Origin	Source Type	Area	Max Age	Last Refreshed	Load Status	Explicit Load	Load Type
☐	FACT_BUSINESS_LEAD	FACT_BUSINESS_LEAD_...	Information Source	Fact	CRM	1	270 hours ago	Success	No	Full
☐	DIM_RETURN_MATERIAL_REAS...	DIM_RETURN_MATERIA...	Information Source	Dimension	Shared	120	270 hours ago	Success	No	Full
☐	DIM_RETURN_MATERIAL_REAS...	DIM_RETURN_MATERIA...	Information Source	Dimension	Sales	120	270 hours ago	Success	No	Full

Navigate to
Parquet Data
Source page

Open Import Parquet Data Source Page

Find page

< ... / Reporting and Analysis / Data Services

Data Sources

Data Sources

Data Source Detail

Solution Manager > Reporting and Analysis > Data Services > Data Source Management > Data Sources

Parquet Data Source

Search

Add New Data Source **Import**

	Name	Source Name	Source Origin	Source Type	Area	Max Age	Last Refreshed	Load Status	Explicit Load	Load Type
☐	FACT_BUSINESS_LEAD	FACT_BUSINESS_LEAD_...	Information Source	Fact	CRM	1	270 hours ago	Success	No	Full
☐	DIM_RETURN_MATERIAL_REAS...	DIM_RETURN_MATERIA...	Information Source	Dimension	Shared	120	270 hours ago	Success	No	Full
☐	DIM_RETURN_MATERIAL_REAS...	DIM_RETURN_MATERIA...	Information Source	Dimension	Sales	120	270 hours ago	Success	No	Full

Solution Manager > Reporting and Analysis > Data Services > Data Source Management > Data Sources > Parquet Data Source

Import Parquet Data Source

Data source Import Details

Choose The .json File To Be Uploaded

Use Imported Parquet Data Source Entries To Overwrite/Rename Existing Entries

Import Cancel

Select Import button

Select the icon to upload the .json file

Import the Data Source Definition

Solution Manager > Reporting and Analysis > Data Services > Data Source Management > Data Sources > Parquet Data Source

Import Parquet Data Source

Data source Import Details

Choose The .json File To Be Uploaded

dataSourceExport_General_Ledger.json

Use Imported Parquet Data Source Entries To Overwrite/Rename Existing Entries

☒

Import Cancel

Switch toggle based on the requirement

Select Import button

Solution Manager > Reporting and Analysis > Data Services > Data Source Management > Data Sources > Parquet Data Source

Import Parquet Data Source

Data source Import Details

Choose The .json File To Be Uploaded

dataSourceExport_General_Ledger.json

Use Imported Parquet Data Source Entries To Overwrite/Rename Existing Entries

☐

Import Cancel

Confirmation to Import

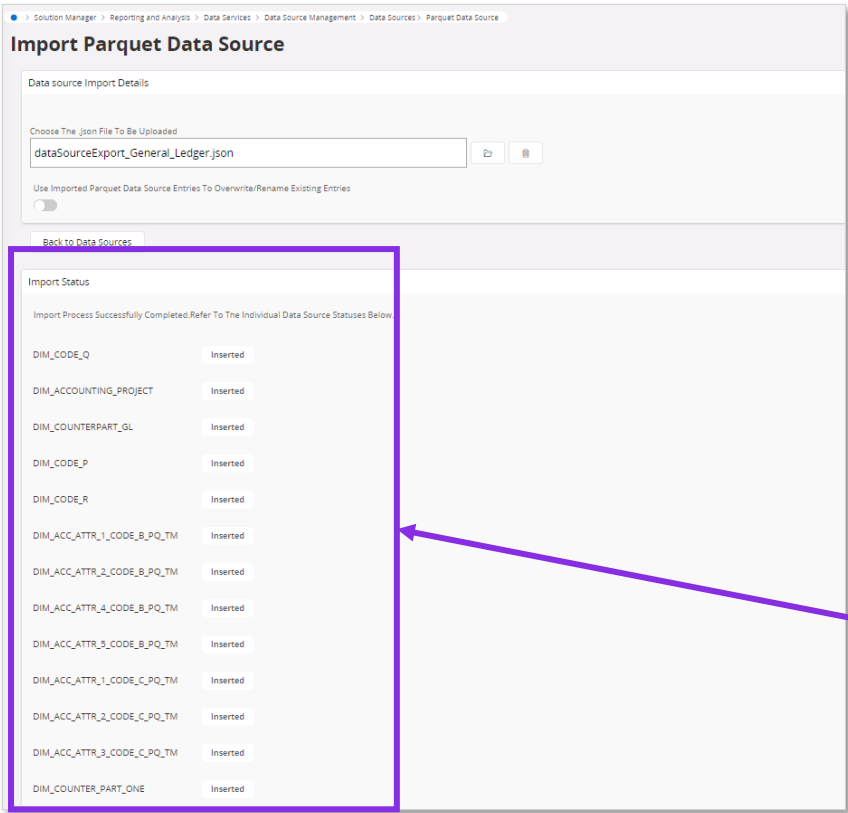
Are you sure you need to import the Parquet data source entries without overwrite/rename existing entries?

Yes No

Confirm

View Import Status

Import status is updated against each Data Source accordingly.



Import Status	Description
NoAction	Imported successfully, if there are existing entries(same Data Source ID), it is not updated
Updated	Imported successfully, if there are existing entries(same Data Source ID), it is updated
Inserted	Imported all the new entries successfully
Error	Import Errors

View Import status

Use **Back to Data Sources** button to return to Parquet Data Source page.

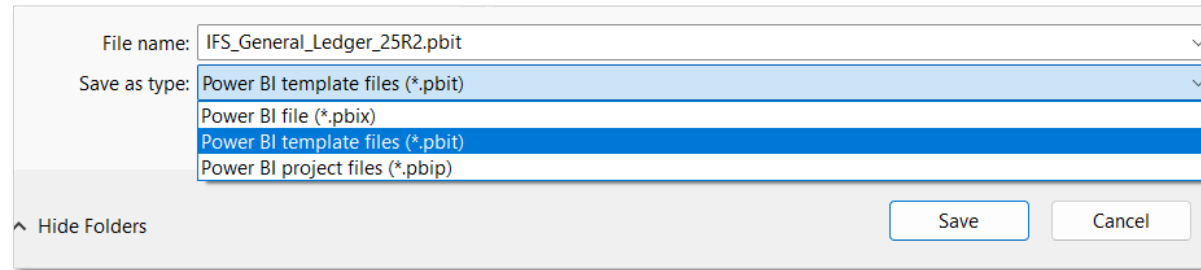
Step-by step guide

Prepare the Customized Power BI File for Upload

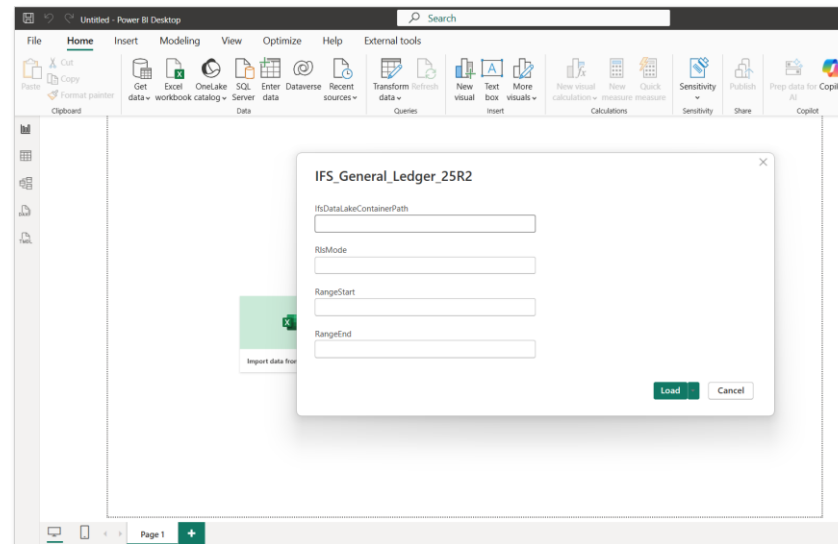
Saving a customized model

The following slides walk through the steps to save a customized Power BI report. It explains how to set the required parameters, resolve any loading warnings, and prepare the file for upload as a new Analysis Model.

Step 1: Save the file in Power BI template (.pbix) format.

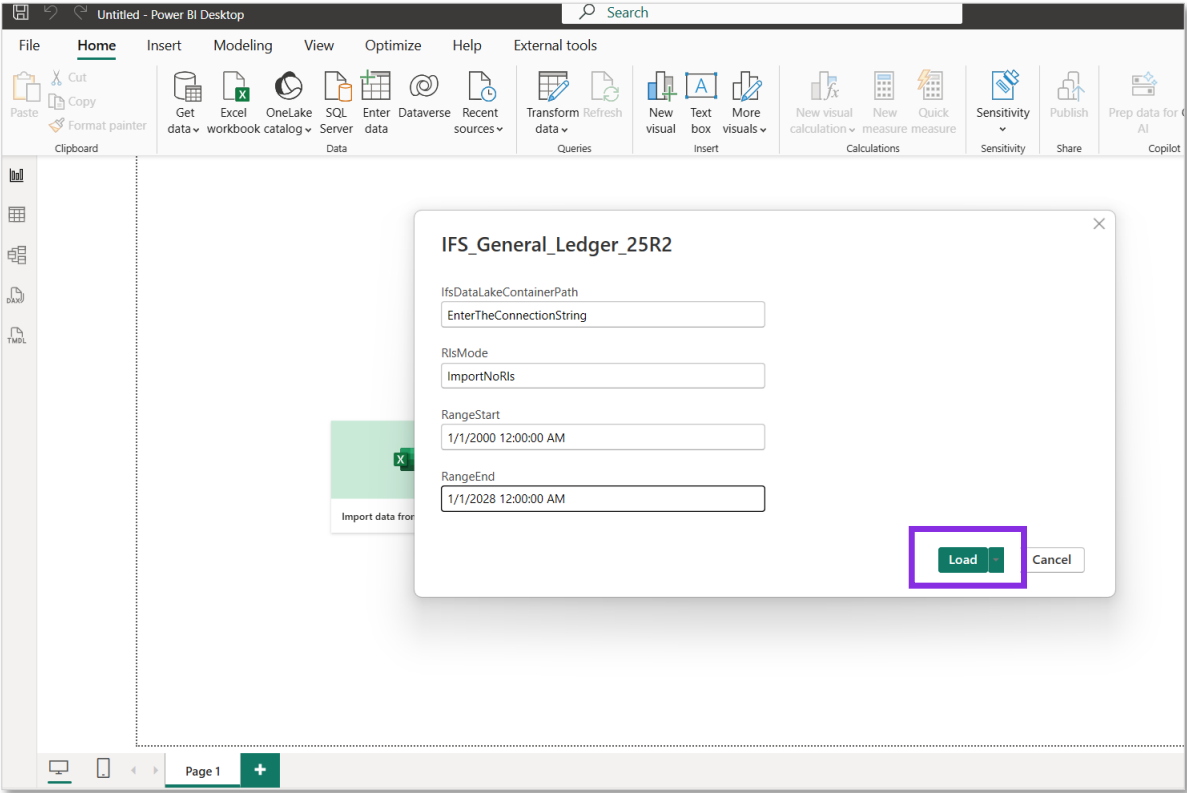


Step 2: Open the .pbix file and wait for the parameter dialog to appear.



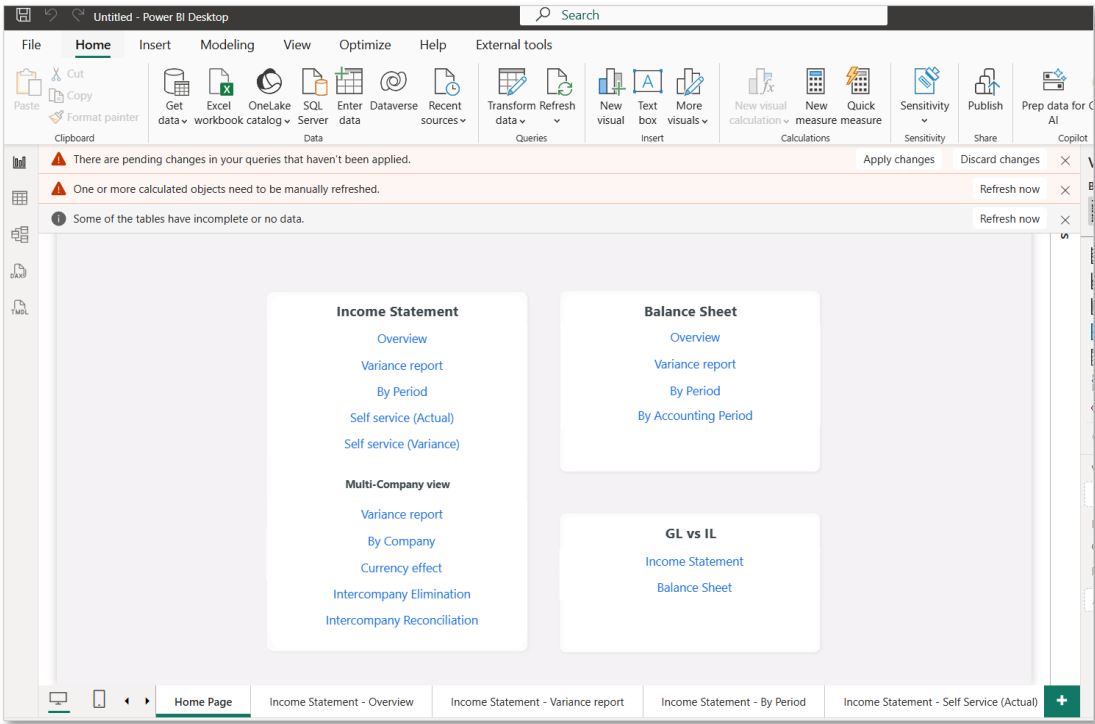
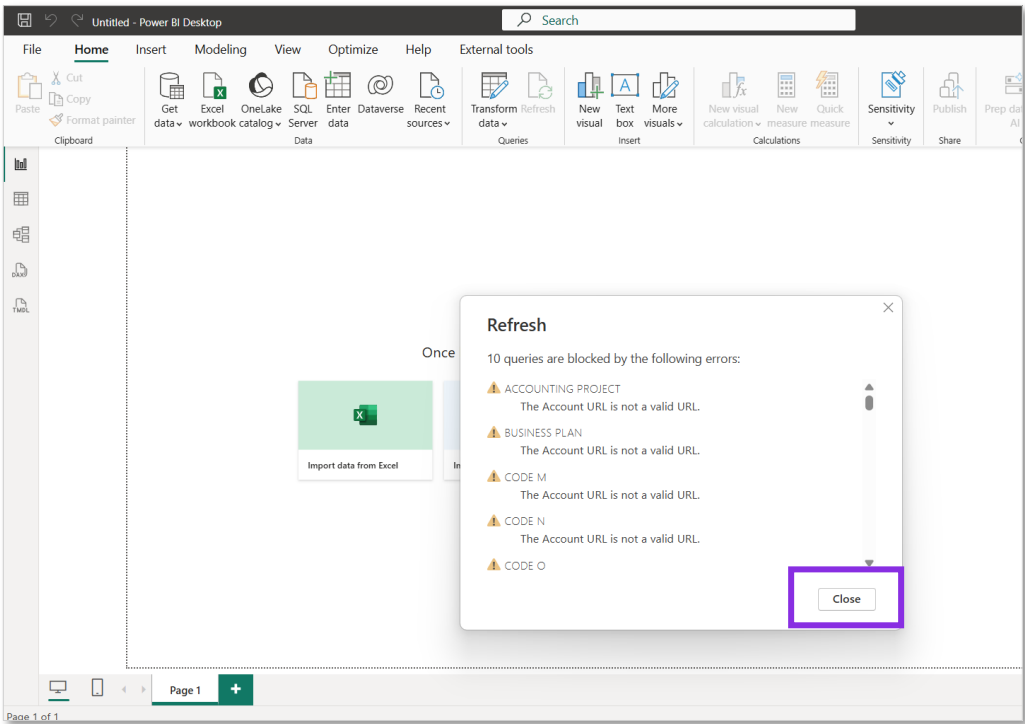
Step 3: Enter the required parameter values and click Load to load the model.

Configure each parameter by adding a sample placeholder value as shown in the below image.



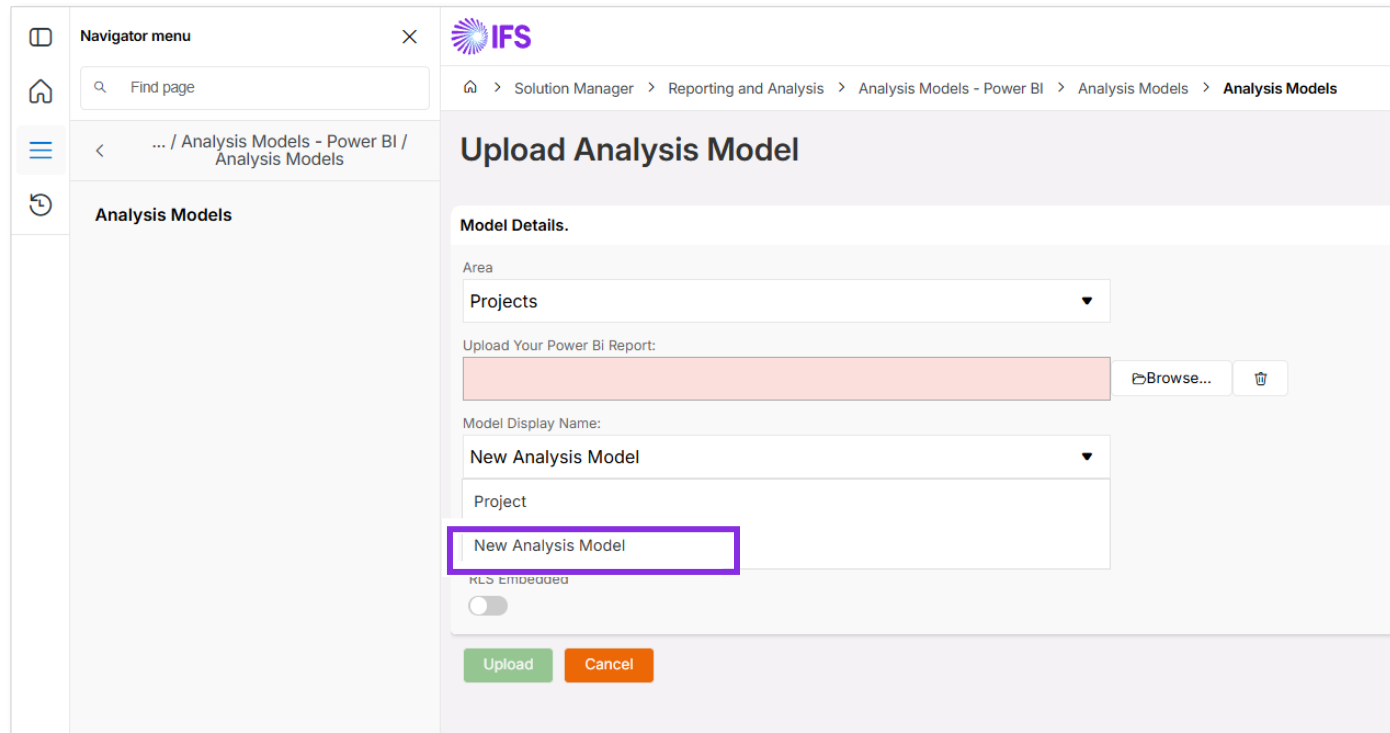
Parameter Name	Example placeholder values	Available in
IfsDataLakeCo ntainerPath	EntertheConne ctionString	All Models
RlsMode	ImportNoRls	All Models
RangeStart	1/1/2000 12:00:00 AM	Incremental Loading Models
RangeEnd	1/1/2028 12:00:00 AM	Incremental Loading Models

Step 4: Once the file has loaded, you may see loading errors similar to those shown below. Click Close to dismiss the dialog and wait for the report to finish loading.



Upload the Customized Model

- **Step 5:** Save the file in Power BI (.pbix) format.
- **Step 6:** Navigate to the **Analysis Models** page in IFS Cloud Web and use the **Upload** option to upload the file as a **New Analysis Model**, then **Refresh** the model.
- **Step 7:** Verify the report in the Power BI Service by navigating to the relevant target workspace.



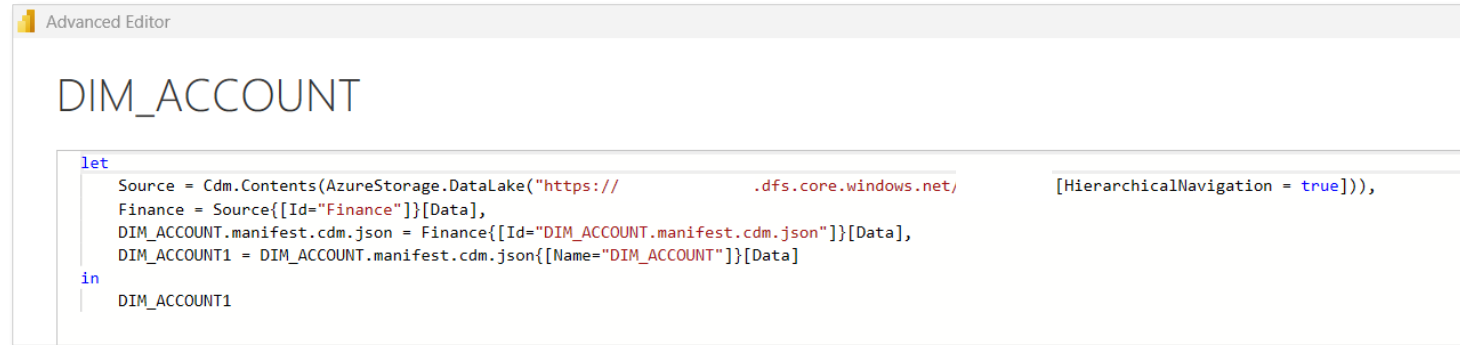
The screenshot shows the 'Upload Analysis Model' form in the IFS Cloud Web interface. The left sidebar contains a 'Navigator menu' with a search bar and a list of pages, including 'Analysis Models'. The main content area is titled 'Upload Analysis Model' and contains the following fields:

- Model Details:**
 - Area:** A dropdown menu with 'Projects' selected.
 - Upload Your Power BI Report:** A text input field with a 'Browse...' button and a trash icon.
 - Model Display Name:** A dropdown menu with 'New Analysis Model' selected.
 - Project:** A text input field with 'New Analysis Model' entered.
 - KLS Embedded:** A toggle switch that is currently turned off.

At the bottom of the form are two buttons: 'Upload' (green) and 'Cancel' (orange).

Update the M-Query to Use Parameters

When a new Analysis Data Source is added to a model, the m-query must be updated to reference the model parameters. By default, once a Data Source is connected, the m-query stores the hardcoded URI of the data lake where the source resides.

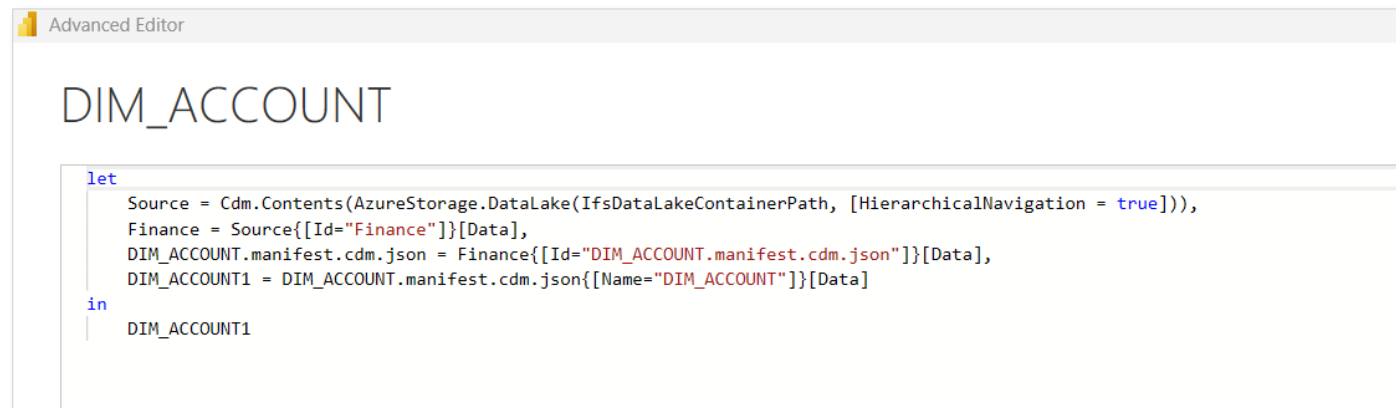


```
Advanced Editor

DIM_ACCOUNT

let
    Source = Cdm.Contents(AzureStorage.DataLake("https://.dfs.core.windows.net/ [HierarchicalNavigation = true])),
    Finance = Source{[Id="Finance"]}[Data],
    DIM_ACCOUNT.manifest.cdm.json = Finance{[Id="DIM_ACCOUNT.manifest.cdm.json"]}[Data],
    DIM_ACCOUNT1 = DIM_ACCOUNT.manifest.cdm.json{[Name="DIM_ACCOUNT"]}[Data]
in
    DIM_ACCOUNT1
```

Replace the hardcoded URI with the model parameter that stores this value. The parameter name is **IfsDataLakeContainerPath**.



```
Advanced Editor

DIM_ACCOUNT

let
    Source = Cdm.Contents(AzureStorage.DataLake(IfsDataLakeContainerPath, [HierarchicalNavigation = true])),
    Finance = Source{[Id="Finance"]}[Data],
    DIM_ACCOUNT.manifest.cdm.json = Finance{[Id="DIM_ACCOUNT.manifest.cdm.json"]}[Data],
    DIM_ACCOUNT1 = DIM_ACCOUNT.manifest.cdm.json{[Name="DIM_ACCOUNT"]}[Data]
in
    DIM_ACCOUNT1
```